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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/527,444

10/28/2005

Abdelwahab Aroussi

6817-A-1

2146

26740 7590 12/22/2009
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EXAMINER

SORKIN, DAVID L

ART UNIT

PAPER NUMBER

1797

NOTIFICATION DATE

DELIVERY MODE

12/22/2009

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

robert@vonhellenslaw.com
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Office Action Summary	Application No. 10/527,444	Applicant(s) AROSSI, ABDELWAHAB	
	Examiner DAVID L. SORKIN	Art Unit 1797	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 08 December 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 and 23-50 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 and 23-50 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10 November 2009 has been entered.

Claim Objections

2. In claim 30, "tow" apparently should read - - two - -.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1, 23, 25, 28 and 31-50 are rejected under 35 U.S.C. 102(b) as being anticipated by Gao et al. (US 6,395,175). Regarding claim 1, Gao discloses a pipe having an inlet end and an outlet end and including a core defined by two or more core pipe sections (110, 112) arranged in pairs comprising respective upstream and downstream core pipe sections lying adjacent one another in a fixed spatial arrangement and connected in series between the inlet and outlet end, each pair of upstream and downstream pipe sections defining an upstream inlet and a downstream

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outlet, each of the upstream inlet and downstream outlet having fixed cross-sectional areas, the upstream and downstream pipe sections in each pair defining different relative gradual or rapid change in cross-sectional area, the cross sectional area of each upstream core pipe section increasing from an inlet cross sectional area at an upstream end thereof to a relatively larger cross sectional area at a downstream end thereof (see Fig. 2). Regarding claim 23, the cross-sectional areas of the inlet and outlet ends are equal (see Fig. 2). Regarding claim 25, each upstream core pipe section defines a relatively gradual increase in cross-sectional area from the inlet cross-sectional area to a maximum cross-sectional area at the downstream end thereof and each downstream core pipe section defines a relatively gradual decrease in cross-sectional area from the maximum cross-sectional area to a outlet cross-sectional area at a downstream end thereof (see Fig. 1). Regarding claim 28, each upstream core pipe section defines a relatively rapid increase in cross-sectional area from the inlet cross-sectional area to a maximum cross-sectional area at the downstream end thereof and each downstream core pipe section defines a relatively rapid decrease in cross-sectional area from the maximum cross-sectional area to an outlet cross-sectional area at a downstream end thereof (see Fig. 1). Regarding claim 31, Goa discloses a pipe having an inlet end and an outlet end and including a core defined by two or more core pipe sections (110,112) arranged in pairs comprising respective upstream and downstream core pipe sections lying adjacent to one another in a fixed spatial arrangement and connected in series between the inlet end and the outlet end, each upstream and downstream pipe section defining a relatively gradual or rapid change in

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cross-sectional area, and the cross-sectional area of each upstream core pipe section increasing from an inlet fixed cross-sectional area at an upstream end thereof to a relatively larger fixed cross-sectional area at a downstream end thereof; and a flow control system (110,112) located at the inlet end. Regarding claim 32, Goa discloses a pipe having an inlet end and an outlet end and including a core defined by two or more core pipe sections (110,112) arranged in pairs comprising respective upstream and downstream core pipe sections lying adjacent to one another in fixed spatial arrangement and connected in series between the inlet end and the outlet end, each upstream and downstream pipe section defining a relatively gradual or rapid change in cross-sectional area, the cross-sectional area of each upstream core pipe section increasing from an inlet fixed cross-sectional area at an upstream end thereof to a relatively larger fixed cross-sectional area at a downstream end thereof, the flow homogenizer further including a flow control system (110,112) located at the outlet end. Regarding claim 33-44, Goa discloses a tapered throat / wedge-shaped ramp/ aerofoil (110,112) is located at the inlet and outlet ends. Regarding claims 45-50, a jet is located at an end (see Fig. 2).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 26 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goa et al. (US 6,395,175). Numerical values for the recited size ratios are not provided by Goa. See *Gardner v. TEC Systems, Inc.*, 725 F.2d 1338, 220 USPQ 777 (Fed. Cir. 1984), cert. denied, 469 U.S. 830, 225 USPQ 232 (1984) concerning the obviousness of selecting relative dimensions.

7. Claims 24, 29 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goa et al. (US 6,395,175). One of the changes in cross section being relatively gradual and the other being relatively rapid is not explicitly disclosed; however the selection of different Greek letters, alpha and beta, by the reference to represent the angles corresponding to the rates of change of the cross section would have suggest such to one of ordinary skill in the art.

Response to Arguments

8. Applicant's arguments concerning Gao et al. (US 6,395,175) only relate to intended use and intended contents and do not attempt to point out any structural difference. "Expressions relating the apparatus to contents thereof during an intended operation are of no significance in determining patentability of the apparatus claim." *Ex parte Thibault*, 164 USPQ 666, 667 (Bd. App. 1969). "Inclusion of material or article worked upon by a structure being claimed does not impart patentability to the claims." *In re Otto*, 312 F.2d 937, 136 USPQ 458, 459 (CCPA 1963)). As held in *In re Casey*, 370 F.2d 576, 152 USPQ 235 (CCPA 1967), "the manner or method in which such machine is to be utilized is not germane to the issue of patentability of the machine itself." Also, "recitation with respect to the manner in which a claimed apparatus is

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intended to be employed does not differentiate the claimed apparatus from a prior art apparatus” *Ex parte Masham*, 2 USPQ2d 1647 (Bd. Pat. App. & Inter. 1987).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID L. SORKIN whose telephone number is (571)272-1148. The examiner can normally be reached on Mon.-Fri. 7:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Walter D. Griffin can be reached on 571-272-1447. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/DAVID L. SORKIN/
Primary Examiner, Art Unit 1797